THE MANY USES

Extracts From Pamphlet Issued by Geological Survey.

PRODUCTION IS NOT VERY HEAVY

Mineral Is One of Deep Creek District's Numerous Resources.

One of the most widely known of the rarer metals is tungaten, found to some extent in Utah, especially in the Deep Creek district. The production of this metal in the United States, however, is rungsten produced is used in making tool steel, the demand for tungsten decreased greatly during the recent depression in the steel industry. In 1908 the dement production of tungsten ore, reduced to an any quivalent of ore carrying 60 per cent tungsten trivolde (WO3), the ordinary prominerical basis in the United States, as 671 short tons, valued at \$250,648, in 100. The statistics at present available on foreign countries show a similar define. These figures are taken from a grown by F. L. Hess, of the United States, calendar trivolde (WO3), the second of the states are taken from a grown by F. L. Hess, of the United States, calendar trivolde (WO3), the second of the states are taken from a grown of the shalt on the following the second of the states are taken from a grown of the shalt on the states are taken from a grown of the shalt on the ledge average of the industry by states, notes on the urrence and uses of tungsten.

Occurrence of Tungsten.

Ungsten is of wide occurrence, but the various properties.

Note of the states are taken from a state of the industry by states, notes on the urrence and uses of tungsten.

Note of the states are taken from a grown of the shalt on his property which are very rich, easily assaying \$50 at ton in gold, silver and considerable work is being done on the various properties.

Note of the old Cortex mill would not treat ore carries extraordinarily high mill values. The coardinarily high m not large, as a little of it goes a long production of tungsten ore, reduced to an equivalent of ore carrying 60 per cent of tungstic trioxide (WO3), the ordinary commercial basis in the United States, was 671 short tons, valued at \$22,955, as against 1,640 tons, valued at \$290,048, in 1907. The statistics at present available from foreign countries show a similar decline. These figures are taken from a report by F. L. Hess, of the United States Geological Survey, published in an advance chapter from "Mineral resources of the United States, calendar year 1905." Mr. Hess gives also details of the industry by states, notes on the occurrence and uses of tungsten, and a partial bibliography.

nother one. The tungsten minerals used as ores are

The tungsten minerals used as ores are hubberlise a tungstate of manganese wolframite, a tungstate of manganese and iron; ferberlie, a tungstate of calcium. They generally occur in veins cutting igneous rocks that contain much silica, such as granite and granodlorite Some simple tests for identifying these minerals are described by Mr. Hess. Uses of Tungsten.

Uses of Tungsten.

The mest important use of tungsten is as an alloy for tool steel to which it imparts the property of holding temper at a much higher temperature than high-carbon steels. When lathe tools are made of tungsten steel the lathe may be speeded up until the chips leaving the tool are so hot that they turn blue. It is said that about five times as much work can be done by a lathe built for such speeds and work and fitted with tungsten-steel tools as can be done by the same lathe with carbon-steel tools. From 15 to 20 per cent of tungsten is ordinarily used in lathe tools.

There has been a widespread belief that most of the tungsten mined went into armor plate, but it is stated by the ordinance bureau of the navy department that tungsten is not now, and, so far as known to that bureau, never has been used in the manufacture of armor plate in this country, and it is not known to have been used in other countries, though it has probably been used in experimental armor plates. One of the nost essential properties of armor plate is its ability to resist shock, and this property is not imparted to steel by sungsten.

Used in Lamps.

Used in Lamps.

the melting point of tungsten is sigh-about 3080 degrees centigrade metal is valuable for use as a fils-in incandescent electric lamps, and ment in incandescent electric lamps, and such lamps are rapidly coming into common use. The whiteness of the light given by the tungsten filament makes it much superior to that of carbon and the efficiency of the tungsten lamp is more than twice as great as that of the carbon lamp. Thousands of filaments can be made from a pound of tungsten.

Tungsten salts are used in freproofing cloth for curtains, draperies, etc.; in weighting silks; in glass making; as a mordant in dyelng, and for other purposes.

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AMERICAN CANYON HAS BRIGHT FUTURE

Development and Giving Results.

That the American Canyon mining district is destined to run with the many other good camps in Humboldt county in the very pear future is evidenced by he many good reports that are coming from that section. Hardly a week passes but that some good things from the famous old district are brought to town of some new discovery, says the Love-

of some new discovery, says the Lovelock Review.

R. S. Feige, who has just returned
from a short visit to the district, where
he had gone to inspect his interests, reports a very substantial strike on the
fron Hill group, owned by Louie Bartelle. On this property, Mr. Feige states,
an eighty-foot crosscut tunnel has been
driven. Fifty feet of this distance was
run through ledge matter. In driving
the crosscut three fine ore shoots have
been disclosed, all of which show gold
in paying quantities. These pay shoots
vary in width of from three to five feet
and are located from six to ten feet
apart.

LOOKS ENCOURAGING

Old Winnemucca District.

Humboldt Star. The cre is of the ship-ping grade and carries about equal values the mill is all completed and waiting for

Tunneling on Veins.

Further up the hill there is a tunnel in 80 feet and the ledge there shows the same character of ore that is being taken from the shaft, with the exception that the values are greater in gold. Still higher up a tunnel las been started on what is proving to be another distinct vein and the ore exposed shows good values in gold and silver. At least 200 test down the hill below the shaft the vein has been opened on the surface merogratory to driving a tunnel at that reparatory to driving a tunnel at that

Arrangements are being made for installing a whim, when the shaft will be sent down to greater depth.

Superintendent Smith showed a large number of certificates of assay of ere from the property and the values range from \$20 to \$180 to the ton. In some instances the rock carries four ounces in gold to the ton besides the silver values.

The opening of this property virtually on the outskirts of town only goes to show what is to be found in the Winnemusearch is made.

SAMUEL R. NEEL & CO., Stock Brokers,

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A bewildering array of tracks surround, intersect, bisect and crosscut the steam shovel pit of the Nevada Consolidated, so intricate are becoming the working of the Guggenheim mine. An other railroad is being constructed on the east side to meet the topmost terrace which is being stripped for the ort. The grading is also being done for the adverse which is to enter the pit from the east side and approach it in a diagnost of the stripped for the purpose of lowering the grade into the pit, which is now in the construction of the purpose of lowering the grade into the pit, which is now in the construction of the east side and approach it in a diagnost of the wagner round the pit entrance, and the only way left from east to west, or west to east, will be to make a detour of this big excavation. There is a probability, however, of a trestle being thrown across the railroad cut to the east to connect the Star Pointer and the pit workings. Vesterday they were using sleds for the transportation of freight around the grounds—White Pine News, Ely.



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CORTEZ DISTRICT UNDER DEVELOPMENT

Numerous Properties Are Under Reported That Eastern Capi- Promising Prospect at Cactus talists Will Start Work in Spring.

SPOKANE, Wash., Dec. 5.—"We have four and a half feet of gold ore, assaying about \$57 a ton, on the Red Top in the Verde group in the Cortez district. Nevada," said Fred Birney, original locator of the Furnace Valley mine in California, on his return to Spokane, "and that property will be developed by Chicago capitalists next spring. The property includes the Nevada Treasury claims, owned by Patrick Clark of Spokane, who bought his ground frem Maggle Johnson, the only colored woman in the district.

kane, who bought his ground from Maggle Johnson, the only colored woman in
the district.

"The Clark property is being worked
with thirty men and is in excellent
shape. They have thirty-five feet of ore
which will average better than \$20 a
ton. The Little Gem, located fourteen
miles from Clark's property, is rich in
gold and sliver. The mine is owned by
Sait Lake people. Their ore averages 28
per cent copper, \$15 in gold and slivy
ounces of sliver. They are now putting up a concentrator.

The Old Cortez.

OPENING UP STRONG

Extensive Work Under Way in Rex Mill Ready for Installation of Its Delayed Machinery.

Superintendent C. T. Smith of the The Rex Mines company are having a Laurel Gold Mining, Milling and Leasing very hard time getting in their machinompany, has left at this office a lot of ery on account of the bad roads, accordsamples of ore from the property in the ing to advices from Midas. There are Winnemucca mining district, says the three car loads at Nelson station on the ping grade and carries about equal values in gold and silver. Mr. Smith states that some time this month a carload shipment of ore will be made to the smeller. A significant feature is that this ore is being extracted from a property that is situated only about eight miles from town at what is known as the Barrett Springs section of the Winnemucca district. The property from which the ore is being taken out is being rapidly developed into a mine of some prominence.

Eight men are kept busy and the present developments in the mine are all in values, and ore enough blocked out for the capacity of the mill for two years. The Gold Circle Crown Mining company expect by the first of the coming month to put on more men, and drive a tunnel to the intersection of the Snow-storm Leasing company shaft, directly west from their present tunnel on the ledge, and have cut three ore shoots of good commercial ore.

Sait Laker Busy.

The Elko Prince properties, under the supervision of L. L. Savage, are proving feet and the other 48 feet and it is from this shaft that the ore was taken that is now on display at this office.

Tunneling on Veins.

Salt Laker Busy.

The Elko Frince properties, under the supervision of L. L. Savage, are proving to be good. They are driving in on the ledge in the old workings and have two feet of ore that samples \$18 per ton. They expect great things when they strike the old Weir shaft and greater values.

The Glasgow and Western are preparing to sink a double compartment shaft on the Eastern Star, and have ordered a holst and pumps, for they have water to contend with. They will sink two hundred feet and drift to their ore.

AT THE NEVADA CON

MORE DANVILLE PROOF.

Jacob Schrall, 432 South street, Danville, Ill., writes: "For over eighteen months I was a sufferer from kidney and bladder trouble. During the whole time was treated by several doctors and tried several different kidney pills. Seven weeks ago I commenced taking Foley's Kidney Pills, and am feeling better every day and will be glad to tell any one interested just what Foley's Kidney Pills did for me.' Schramm-Johnson Co.

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Lovelock—Bible Bros.
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Ely—Grace B. Faxon; Harville Stationery Co.
McGill—M. Herman; Walden & Burnett.
Rhyolite—The Crescent.
Ploche—Pioche Drug Co.
Callente—John Shier; Thomas Himstreet. Nevada News Agents.

ROCKET PROPERTY EQUIPPED FOR WORK

Springs Will Be Further Developed.

A large consignment of lumber and provisions was sent out yesterday for the Rocket Mining company, which is operating some promising property at Cactus Springs, says the Goldfield Trib-une. The work is in charge of Jack Mc. the Rocket Mining company, which a operating some promising property a Cactus Springs, says the Goldfield Tribuno. The work is in charge of Jack Mc Eachen, one of the best known prospectors and miners in the desert country. The company is backed by Chicago. Duluth and Louisville people, and extensive development is planned. W. C. Peay one of the principals in the enterprise is here from Chicago, and will go out it. s here from Chicago, and will go ou Cactus Springs with Mr. McEachen morning.

Shaft Equipped.

Shaft Equipped.

A commodious house has recently been erected on the property, and a whim installed on the shaft. Mr. Peay has such confidence in the proposition that he contemplates bringing his family to the desert, and taking up his residence at the mine for several months.

The shaft is about eighty feet deep, and crosscuts have been driven into a blowout alongside of which the shaft is located, and very encouraging values have been obtained. It is now planned to sink to 200 feet, and then crosscut into the hill to a large vein that outcrops on the surface, and shows values from \$10 to \$20 per ton. This is one of the most promising prospects in the Cactus Springs district, and has all the earmarks of making a mine with development.

Tribune Want Ads.



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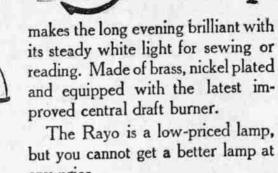
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